

CLAIMS

What is claimed is:

- 5 1. A rotary orbital sander, comprising:
 a motor having a rotatable shaft with a
 radially off-set portion;
 a suction housing mounted to the motor,
 around said motor shaft and connectable with a vacuum
10 source,
 a sanding pad assembly mounted to the
 radially off-set portion of said shaft;
 said sanding pad assembly further including
 a backing pad having a plurality of apertures
15 therethrough and an annular frame having a
 circumferential side wall including first and second
 circumferential edges and disposed between said
 suction housing and said sanding pad assembly;
 a circular back wall extending from one of
20 said circumferential edges and having an opening
 therein sealable with said suction housing; and
 the other of said circumferential edges
 being attached to said backing pad.
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- 25 2. The rotary orbital sander of claim 1,
 including a plurality of radially disposed ribs
 extending generally from said circumferential side
 wall to a like plurality of leg members disposed
 about said opening in said circular back wall,
30 stiffening said sanding pad assembly and backing pad.

3. The rotary orbital sander of claim 1,
wherein said sanding pad assembly further includes a
sanding disk having a size and shape complimentary to
said sanding pad, and a plurality of holes for
5 alignment with the said apertures in said backing
pad.